Dr. Goldman: Vesicants: Brief Survey of Medical Aspects of the Irritant Smokes, Screening Smokes and Tear Gases; Medical Aspects of Collective Protection and of Decontamination; Medical Aspects of Protection of Food and of Water Supplies and of the Protection of Animals.

Lieutenant A. L. Sparks, of the staff of the Medical Research Laboratory, Chemical Warfare Service, Edgewood Arsenal, Md.: Military Aspects of Chemical Warfare as Related to Civilians.

Dr. George Baehr, chief medical officer, U. S. Office of Civilian Defense, Washington, D. C., gave the opening lecture of the course, explaining its purpose.

It is intended that physicians who have taken this course will be able to set up similar units of instruction in their own localities and will teach both medical and civilian groups.

THE MEMPHIS MEETING OF THE AMERICAN CHEMICAL SOCIETY

THE annual meeting of the American Chemical Society will be held in Memphis, Tenn., on April 20, 21, 22 and 23. The Hotel Peabody has been designated as headquarters. Registration will begin on Saturday, continuing through Monday.

The proceedings will open with a general meeting in the Municipal Auditorium. The Honorable Walter Chandler, mayor of Memphis, will give the address of welcome. His address will be followed by the presentation of diplomas certifying to fifty years of continuous membership in the American Chemical Society to Leo H. Baekeland, G. E. Barton, Walker Bowman, Harold H. Fries, Walter Mills Saunders, Albert L. Smith, Alfred Springer, C. P. Van Gundy, Homer Jay Wheeler and Fred G. Zinsser.

The Eli Lilly and Company Award in Biological Chemistry will be presented to Earl Alison Evans, Jr. His address will be delivered on Wednesday before the Division of Biological Chemistry. He will speak on "Carbon Dioxide Assimilation in Animal Tissues." The Borden Award in the Chemistry of Milk will be presented to George E. Holm, who will give the award address, entitled "The Physical and Chemical Aspects of the Libides in Milk," before the Division of Agricultural and Food Chemistry on Thursday.

The following lectures are planned: Henry G. Knight, U. S. Bureau of Agricultural Chemistry and Engineering, on "Cotton—Yesterday, To-day and Tomorrow"; Colonel A. Gibson, Chemical Warfare Service, inspector, Office of Civilian Defense, on "The Chemist's Place in Civilian Defense." Lawrence W. Bass, Mellon Institute of Industrial Research, chairman of the American Chemical Society Committee on Economic Status, will read the report of the committee. There will also be presented from the Office of Civilian Defense Training a motion picture entitled "Fighting the Fire Bomb."

Practically all the divisions of the society will present technical programs throughout the week, and a number of symposia and joint meetings of the divisions are planned. Symposia have been arranged on The Hydrogen Bond and Related Topics, Rare Earths, Trace Elements in Nutrition, Vitamins, Analytical Methods in Organic Chemistry and the History of Chemistry in the South. There will be a round table on the teaching of chemistry on Tuesday afternoon and a student program all day on Wednesday.

There will be trips of inspection to various plants, but these have been greatly curtailed because of the war. Many industries can not permit inspection trips and others must limit attendance in order to avoid interference with production.

THE SCIENTIFIC MEETINGS AT SALT LAKE CITY

THE following societies will meet in cooperation with the Pacific Division of the American Association for the Advancement of Science, which will hold its twenty-sixth annual meeting at Salt Lake City from June 15 to 20:

American Association of Economic Entomologists, Pacific Slope Branch, *chairman,* G. F. Knowlton, Utah State Agricultural College, Logan; American Association of Physics Teachers, *president,* A. A. Knowlton, Reed College, Portland, Oregon; American Chemical Society, Pacific Intersectional Division, *chairman,* W. D. Bonner, University of Utah, Salt Lake City; American Geophysical Union, Section in Hydrology, *chairman in charge of arrangements,* Royce J. Tipton, Denver, Colorado; American Meteorological Society, *president,* E. H. Bowie, U. S. Weather Bureau, San Francisco, California; American Phytopathological Society, Pacific Division, *president,* R. B. Streets, University of Arizona, Tucson; American Society for Horticultural Science, Western Section, *chairman,* A. C. Hildreth, U. S. Department of Agriculture, Cheyenne, Wyoming; American Society of Ichthyologists and Herpetologists, Western Division, *president,* Margaret Storey, Natural History Museum, Stanford University; American Society of Plant Physiologists, Western Section, *chairman,* J. Van Overbeek, California Institute of Technology, Pasadena; Association of Pacific Coast Geographers, *president,* Forrest Shreve, Desert Laboratory, Carnegie Institution of Washington, Tucson; Botanical Society of America, Pacific Division, *president,* C. E. Owens, Oregon State College, Corvallis; California Academy of Sciences, *president,* F. M. MacFarland, Stanford University; Ecological Society of America, Western Section, *president,* C. F. Korstian, Duke University, Durham, North Carolina; Oceanographic Society of the Pacific, *president,* R. C. Miller, California Academy of Sciences, San Francisco; Society of American Bacteriologists, Southern California Branch, *chairman,* Anson Hoyt, Medical School, University of Southern California, Los Angeles; Society for Experimental Biology and Medicine, Pacific Coast Branch, *chairman,* C. A. Kofoid, department of zoology, University of California, Berkeley; Western

Interstate Snow Survey Conference, *chairman in charge of arrangements*, George D. Clyde, Utah State Agricultural College, Logan; Western Society of Naturalists, *president*, G. H. Ball, University of California, Los Angeles; Western Society of Soil Science, *president*, L. C. Wheeting, State College of Washington, Pullman.

ELECTIONS TO FELLOWSHIP OF THE ROYAL SOCIETY

ELECTIONS to fellowship of the Royal Society, London, on March 19 are as follows:

Burn, J. H., professor of pharmacology, Oxford; formerly dean of the College of the Pharmaceutical Society; distinguished for his work in physiology and pharmacology and on the principles and methods of biological standardization.

Burnet, F. M., assistant director of the Walter and Eliza Hall Institute for Medical Research, Melbourne; distinguished for his researches in bacteriology, especially on avian and mammalian viruses.

Dixon, M., lecturer in biochemistry, Cambridge; distinguished for his work on tissue respiration and respiratory catalysis.

Dodds, E. C., professor of biochemistry, Middlesex Hospital Medical School; distinguished for his investigations in biochemistry in relation to physiology and medicine and especially in the synthetic production of oestrogenic agents.

Fage, A., principal scientific officer, Aerodynamics Department, National Physical Laboratory; distinguished for his contributions to the experimental study of aero- and hydrodynamics, particularly in relation to turbulent flow.

Fairley, N. H., consulting physician in tropical diseases; Colonel, A.A.M.C.; physician and director of special research, Hospital for Tropical Diseases, London; distinguished for his researches in tropical medicine.

Hall, P., university lecturer in mathematics, Cambridge; distinguished for his contributions to pure mathematics, particularly in the theory of groups.

Hanes, C. S., senior scientific officer, Low Temperature Research Station, Cambridge; distinguished for his researches in botany and biochemistry, and particularly for the first enzymatic synthesis of starch.

Henderson, G. H., professor of mathematical physics, Dalhousie University, Halifax; distinguished for his work in radio-activity and particularly in the investigation of pleochroic haloes.

Hilditch, T. P., professor of industrial chemistry, Liverpool; distinguished for his work on the chemistry of natural fats.

Hindle, E., regius professor of zoology, Glasgow; distinguished for his work in parasitology, and on the cytology of artificial parthenogenesis.

Holmes, A., professor in geology, Durham; distinguished for his work in petrology and the applications of radio-activity to geological problems.

Newitt, D. M., assistant professor in chemical technology, Imperial College, London; distinguished for his work on high pressure technology and for his researches on combustion.

Paterson, C. C., director of the Research Laboratories, General Electric Company, Wembley; distinguished for his work in promoting physical and industrial research.

Roberts, J. K., assistant director of research, Colloid Science Laboratory, Cambridge; distinguished for his investigations by physical methods on adsorption and other surface phenomena of importance in catalysis.

Skinner, H. W. B., Wills research fellow and lecturer in spectroscopy, Bristol; distinguished for his work on the x-ray spectroscopy of the solid state leading to results of importance in the theory of the structure of metals.

Thoday, D., professor of botany, Bangor; distinguished for his researches in plant physiology, particularly those dealing with photosynthesis, causal anatomy and the water relations of plants.

Todd, A. R., professor of chemistry, Manchester University; distinguished for his researches in organic chemistry, notably the synthesis of vitamin B_1 and other natural compounds of physiological importance.

Trueman, A. E., professor of geology, Glasgow; distinguished for his work in paleontology, particularly on the molluscan faunas of the coal measures.

Wilson, A. H., university lecturer in mathematics, Cambridge; distinguished for his contributions to the electronic theory of solids and for his work on the properties of metals.

MEDAL DAY AT THE FRANKLIN INSTITUTE

TWO men whose contributions to science have had their influence upon our war industries were among those honored by the Franklin Institute at the annual Medal Day exercises on April 15.

Dr. Jerome Clarke Hunsaker, general coordinator of the Naval Research and Development Board and chairman of the National Advisory Committee for Aeronautics, received the Franklin Medal for his distinguished contributions to aeronautical research and development. Dr. Hunsaker designed the NC type of flying boat which made aviation history on its transatlantic flight in 1919. He also designed the *Shenandoah*, the first large airship to be built in this country, and has played a conspicuous part in the later developments of technical advancement of aviation.

A second Franklin Medal was presented to Dr. Paul Dyer Merica, vice-president of the International Nickel Company of Canada. Dr. Merica has received world-wide recognition for his work in the hardening of alloys and in the development of heat treatment of alloys, so that they have an increased usefulness in the industrial field. His preeminence in the field of metallurgy is as much due to his success in adapting many alloys to commercial purposes as to his discovery of the principle of precipitation hardening, a principle of the utmost importance in these days when alloys find a multitude of applications in diversified war industries.

Honorary membership of the institute was conferred upon Senator George Wharton Pepper "in